



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

December 17, 1985

TO: Dianne R. Nielson, Director

THRU: Lowell P. Braxton, Administrator, Mineral Resource
Development and Reclamation Program

Kenneth E. May, Associate Director, Mining *K.E. May 12/18*

FROM: D. Wayne Hedberg, Permit Supervisor/Reclamation
Hydrologist *DWH*

RE: Summary of Permitting Status, Kennecott Corporation,
UCD Concentrator Modernization Project, ACT/035/002,
Salt Lake County, Utah

The following is a chronology and summary of the permitting status for the recent Mining and Reclamation Plan (MRP) Amendment received from Kennecott Corporation as per your request of December 13, 1985.

PERMITTING CHRONOLOGY

October 1, 1985

Phone conversation with Al Trbovich of Kennecott. He indicated company is proposing to modernize current mining facilities. Wants to come in and discuss plans with us next week and our permitting requirements.

October 7, 1985

Phone call to Al Trbovich, set up meeting for October 15, 1985.

October 15, 1985

Meeting held at Division of Oil, Gas and Mining (DOGM) offices with Al Trbovich of Kennecott. He hand delivered two copies of a three volume amendment. No cover letter, assumed conceptual. Mr. Trbovich stated cover letter to follow meeting. He expressed company's desire to start construction

0005

Page 2
Memorandum - Dianne R. Nielson, Director
ACT/035/002
December 17, 1985

in January. He stated that the parent company (Sohio) was requiring Kennecott to proceed with all appropriate permitting matters prior to making a decision to fund the project. Kennecott hoped to have all permits in order by January 1, 1986.

He stated that the following agencies already had plans and verbal commitments for completing their review: State Bureau of Air Quality--end of December 1985; Bureau of Water Pollution Control--November 1985; County Zoning Commission--November 1985; State Division of Water Rights (Dam Safety)--verbal O.K. for preliminary site grading, would approve the final designs when available; SLC County Flood Control Permit--ongoing, expect very soon.

October 25, 1985

DOGM onsite field inspection of Kennecott properties of proposed project amendment. Several areas of concern discussed and additional information was to be provided by Mr. Trbovich as soon as possible. For specifics of field inspection, see file memo dated October 30, 1985.

October 28, 1985

Al Trbovich called to give name of consultants who were contracted to perform hydrologic design work (Becktel). Information requested by Dave Wham, DOGM Hydrologist.

November 27, 1985

Al Trbovich called to arrange a time to meet with Division staff on Tuesday, December 3, 1985 to discuss updated (scaled down) MRP amendment plans. I informed him we had completed the initial review of the conceptual plans and would have a draft copy of the review comments for him on that date.

December 3, 1985

Meeting in DOGM offices with Al Trbovich. He brought in one copy of the updated and amended plans for the UCD Concentrator Modernization Project. A formal cover letter was included with this submission from Mr. Robert Malone to Dianne Nielson. He also submitted some of the additional information as requested by technical staff members while onsite October 25. Mr. Trbovich again indicated Kennecott's planned schedule to commence site grading activities for the concentrating/grinding facility by January 1986.

Page 3

Memorandum - Dianne R. Nielson, Director
ACT/035/002
December 17, 1985

Mr. Trbovich was informed that the Division may have a problem meeting that time frame for the entire project. Mr. Trbovich asked if partial approvals could be granted by the Division. He was informed that this was not likely, but that this would be discussed with management and the company would be notified.

It was suggested that a "Phased Approach" to permitting the project might be a route to pursue in order to help the company stay somewhat on schedule. He stated that most of the other state regulatory agencies had given the company verbal approval or intent to approve by the January deadline. The Division's technical review comments on the conceptual plans were not delivered at the meeting. Some minor editing would be performed pending a cursory review of the latest revised plans and the review letter sent promptly to the company.

December 6, 1985

DOGM forwards the completeness review letter to Kennecott (Robert Malone) which identifies primarily, those technical deficiencies from the review of the initial October 15 submission.

December 13, 1985

DOGM management meeting to discuss permitting status of Kennecott proposal. It was determined that the proposal could not logically be approved by the company's January start-up date. A phased approach seemed to be the most appropriate means to keep the company on schedule. The company would be contacted immediately to discuss the specifics of this option and the permitting requirements which would need to be addressed.

December 13, 1985

DOGM management called Al Trbovich and informed the company that the Division could not achieve an overall project approval by January 1986. The operator was asked to identify all the specific information pertinent to the proposed site grading plan which should be reviewed by the Division's technical staff and approved separately from the entire modernization proposal. Mr. Trbovich presented a list of tables, maps and text which should be considered. He also

Page 4
Memorandum - Dianne R. Nielson, Director
ACT/035/002
December 17, 1985

stated he would deliver three copies of drawings pertinent to the site grading designs and a new private road which would access the grinding site. It was agreed that the Division would review the necessary plans and discuss the results of that review with Mr. Trbovich by phone on December 18, 1985.

December 13, 1985

Three copies of the drawings were dropped off in mid-afternoon by Al Trbovich. Wayne Hedberg briefly discussed with Mr. Trbovich what the Division's main concerns were, why we were suggesting a phased permitting approach and how important it was for us to have knowledge of the company's construction schedule as soon as possible. Mr. Trbovich stated he would do all that he could to provide us with the information we required.

December 17, 1985

(PM) Phone call to Al Trbovich. Informed him that we have two (2) letters drafted for him to pick up. One concerns a follow-up to the conference call which occurred on December 13, 1985. The other letter is our review of Kennecott's plans submitted December 13, 1985.

December 18, 1985

(AM) Both letters (as above) are hand-delivered to Al Trbovich. He did not have time to discuss and stated he would review and return a call later in the day if he had questions or concerns.

dwh
8946R-28-31



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

December 17, 1985

(HAND DELIVERED)

Mr. Alan M. Trbovich
Kennecott, Utah Copper Division
UCD Modernization Project
10 East South Temple
P.O. Box 1248
Salt Lake City, Utah 84147

Dear Mr. Trbovich:

Re: Review of Plans for Initial Site Gradation Work, New
Grinding Plant and Private Access Road, UCD Modernization
Project, ACT/035/002, Salt Lake County, Utah

The Division has completed the review of the latest series of plans and drawings submitted by Kennecott on December 13, 1985. The plans were provided at the Division's request and describe the site grading plans for Kennecott's new grinding plant and private access road to the grinding plant.

Before the technical staff can complete the review of the plans and consider approval of the same, the following information is required:

DEFICIENCIES:

Section 40-8-13 - DWH

The applicant must provide a specific legal description of the land to be affected by the proposed Grinding Plant and new site access road construction activities (Phase I). This information will be included as part of the public notice requirement and tentative decision which must be published upon completion of the Division's review of the permit application.

Rule M-3(1)(g) - JSL

The applicant must submit a soil survey delineating the grinding plant and access road areas to be disturbed.

Page 2
Alan Trbovich
ACT/035/002
December 17, 1985

The Soil Conservation Service Soil Survey of the Salt Lake Area may be used for this matter. The soil survey should be used as a guide for topsoil removal. The soil survey map should depict the locations of the longterm topsoil storage areas, all surface facilities (including the pipeline corridor), and each soil sample site. Drawing No. 712-C-105, Note No. 5 states that "Fill material stockpile areas and waste disposal sites are shown on DWG 712-C-120." The operator did not submit this drawing. The operator should submit DWG 712-C-120 and a map designating all topsoil storage locations. The estimated volume of topsoil should be delineated adjacent to the corresponding topsoil stockpile.

Rule M-3(2)(c) - JSL

A reclamation plan for the proposed grinding plant and the access road must be submitted. The operator must include a narrative describing the removal, storage and redistribution of topsoil. All soil removal activities should be preformed prior to any disturbance to the land surface. An explicit plan describing the protection of all topsoil stockpiles from wind and water erosion, compaction and contamination must be submitted. Berms and diversions should be employed to route surface drainage around the stockpiles.

Rule M-10(7) - JSL

The applicant shall include plans for the reclamation or stabilization of onsite roads.

Rule M-10(14) - JSL

A minimum depth of 12 inches of topsoil should be removed and stockpiled from the grinding plant and the access road site. This is based on the topsoil depth of the Dry Creek soil series described in the Soil Conservation Service Soil Survey of the Salt Lake Area. The applicant must perform a standard soil test to insure vegetation reclamation success. The Grinding Plant area should have a minimum of three soil sites sampled. The following should be evaluated: total nitrogen, available phosphorus, potassium, calcium, magnesium, sodium, sodium absorption ratio, alkalinity, electrical conductivity, saturation percentage, soil texture, organic matter, and pH. Based on the analytical soil data obtained by the above mentioned factors, a soil fertilizer recommendation can be obtained.

Page 3
Alan Trbovich
ACY/035/002
December 17, 1985

A soil redistribution plan must be implemented in the permit application. Such plan should include: the meteorological conditions during the period of redistribution, the minimum depth of topsoil redistribution, soil scarification plans, and protective procedures and precautions to reduce potential compaction by the operation of equipment.

Volume one of the Final Geotechnical Investigation Report submitted 12/03/85 states that clay lenses will need to be removed before commencement of the surface facility construction. The operator must submit plans for the disposal of this material.

Rule M-3(1)(a) - PGL

How many acres are involved in Phase I (site gradation and road construction).

Generally, the applicant must delineate the boundaries of Phase I on a location map and outline the permit area (as well as the bonded area) on this map for Phase I. None of the information submitted referred to a reclamation plan for the area of Phase I. Therefore:

Rule M-10(2)(d) - PGL

The applicant must address where warning signs will be posted (to prohibit public access to the operations). Please indicate the size of the signs and what they will say.

Rule M-10(2)(b) - PGL

The applicant must submit a plan which discusses the disposal of trash and debris as well as the disposition of any foundations and buildings, pipelines, culverts, asphalt, etc., associated with this proposal for Phase I construction.

Rule M-3(2)(a)(b) - PGL and LK

The applicant must submit a plan for the reclamation of the land affected.

The applicant must submit a statement of known prior and current uses to which the land was put, including estimates of current resources and its capabilities to support a variety of uses or potential uses. Final reclamation should be tied to the expected postmining land use (or current use). If the expected land use changes prior to reclamation, then the reclamation plan may be changed to be consistent with the new land use.

The applicant must include information about the possible uses for the land following termination of mining.

Rule M-3(2)(e)(f) - LK, PGL

Revegetation plans are required for:

1. contemporaneous reclamation/stabilization of sediment pond out slopes, diversions, all cuts, fills, embankments, topsoil stockpiles, etc., and
2. final reclamation of all disturbed areas. These plans must identify the acres to be reseeded, species to be used, rates of seeds and/or seedlings to be planted, mulching and irrigation techniques (if any), fertilizer, and a timetable for completion of each major step in reclamation. The timetable does not need to identify dates work will begin and end, but should identify month or season of year and the expected time to complete the task.

Rule M-10(1) - PGL

The applicant must submit a plan for approval of the postmining land use.

Rule M-10(7) - PGL and JSL

The applicant must submit information for the reclamation of all roads and pads in Phase I. These roads must be indicated on the permit area map.

Page 5
Alan Trbovich
ACT/035/002
December 17, 1985

Rule M-3(1)(b) - PGL

The applicant must, within the interior limits of the land affected, show existing, active or inactive, underground or surface mined areas. The boundaries of the surface properties must be shown and the names of surface and mineral owners.

Rule M-5 - PGL

The applicant must submit a detailed cost estimate for the reclamation of the land affected during Phase I. This estimate represents the cost for the Division to do the approved reclamation work. References for the reclamation cost estimate are the Rental Rate Bluebook and the Means Site Cost Index.

Rule M-10(9) - PGL

The applicant must submit information about the removal of all structures, rail lines, utility connections, equipment and debris.

Rule M-10(12)(2) - LK

The applicant needs to provide documentation on how vegetation cover was estimated (page 28), including a description of sampling methodology, sample size, arithmetic mean and standard deviation.

These concerns must be addressed adequately by the applicant before the permitting and approval process can continue for the planned construction of Phase I of the UCD Modernization Project. The information must be provided to this office as soon as possible to allow sufficient time to review and keep your construction plans on schedule.

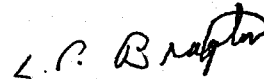
All informational deficiencies as addressed above must be resolved, or near ultimate resolution before the Division can proceed with publication of a notice of intent to Tentatively Approve Phase I of the Modernization Project. This will require a deadline of December 26th (latest possible date) for receipt of said information and hopefully allow adequate time for Division review and processing (given the reduced workforce available over the Christmas Holidays).

Page 6
Alan Trbovich
ACT/035/002
December 17, 1985

In order for proper public notice to occur and still meet a January 31, 1986 construction schedule, this notice must be published by December 31st at the latest (required 30 day public comment period). A minimum of 3 days advance notice is required by the Newspaper Agency Corporation to guarantee publication on a specific date.

Thank you for your cooperation in resolving the remaining concerns. Please call me or D. Wayne Hedberg should you have questions.

Sincerely,



L. P. Braxton
Administrator
Mineral Resource Development
and Reclamation Program

dwh

cc: Robert Malone Dave Hooper
Ken May Dave Wham
Pam G.-Littig Lynn Kunzler
Jim Leatherwood Tom Suchoski
8946R-32-37



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

December 17, 1985

(HAND DELIVERED)

Mr. Alan M. Trbovich
Land and Environmental Engineer
UCD Modernization Project
Kennecott, Utah Copper Division
1515 Mineral Square
P. O. Box 11248
Salt Lake City, Utah 84147

Alan
Dear Mr. Trbovich:

Re: Follow-up to Phone Conversation, Kennecott UCD Modernization Project, ACT/035/002, Salt Lake County, Utah

Pursuant to our telephone conversation of December 13, 1985, the following will summarize DOGM's phased approach to your December 2, 1985, Utah Copper Division Mining and Reclamation Plan Amendment.

1. The priority of starting construction on the grinding plant was established.
2. A series of drawings and references to portions of the amendment was enumerated dealing with specifics of the grinding plant.
3. An immediate Kennecott priority was established to be Division approval of the site grading drawings and the site access road construction to facilitate timely site grading. (Note: Kennecott had not submitted these plans with the December 2, 1985 submission. You hand carried these to DOGM December 13, 1985).
4. The Division will review these plans for technical adequacy with respect to our regulations as soon as they are submitted. When they are determined technically complete, the Division will be prepared to issue a tentative decision on the proposal.
5. An additional requirement not discussed in detail concerns the operator's need to develop a reclamation bond estimate.